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Lw/B

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Applicants : Constantine Tsikos et al.  
Application Serial No.: 10/067,140  
Filing Date : February 4, 2002  
Title: : PLANAR LED-BASED ILLUMINATION ARRAY  
(PLIA) CHIPS  
Examiner : Thien Le  
Group Art Unit : 2876  
Attorney Docket No. : 108-127USANB0

Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

**AMENDMENT UNDER RULE 312(a)**

SIR:

Prior to payment of Issue Fee in the present Application, please amend the same as follows:

**AMENDMENT TO THE CLAIMS:**

Please amend Claims 263-268 as follows:

Claims 1-262 (canceled)

Claim 263 (currently amended): An LED-based planar light illumination (PLIM) chip for use in a ~~PLIM-based planar light illumination and imaging (PLIIM) based~~ system, comprising:

a semiconductor substrate supporting a light emitting diode (LED) array including a linear array of LEDs, each LED having a light emitting source;

a first microlens array having an array of focusing lenslets aligned in spatial registration with said linear array of LEDs;

a second microlens array having an array of collimating lenslets aligned in spatial registration with said linear array of LEDs and said array of focusing lenslets;

an IC package having a light transmission window, for containing said semiconductor substrate, said first microlens array, and said second microlens array,